


**Model:
ESE 25 DWI**
 Water Cooling

 50 Hz

 Three - Phase

 Diesel

**25
23** kVA

**20
18.4** kW

| DIESEL GENERATOR ESE 25 DWI | STANDBY POWER (ESP) | PRIME POWER (PRP) |
|-----------------------------|---------------------|-------------------|
| Power (kVA) | 25 | 23 |
| Power (kW) | 20 | 18.4 |
| Speed (rpm) | 1500 | |
| Standard voltage (V) | 400 / 230 | |
| Power factor (cos phi) | 0,8 | |
| Amperage (Amp) | 33 | |

Endress Group Romania S.R.L. certifications:
ISO 9001: 2008, ISO 14001: 2005, ISO 18001 : 2008.

ZENESSIS generators are CE compliant, and are tested according to the EU legislation on noise levels 2000/14 / EC.

DeWerk
Powerful Equipment

Reference ambient conditions: 1000 mbar; 25° C; 30% relative humidity; power according to ISO 3046 / ISO 8528 standards.

Prime power (PRP) – ISO 8528

Prime power (PRP) – represents the continuous power a generator is able to provide continuously while supplying a variable electrical load when operating for an unlimited number of hours per year, under the agreed operating conditions, maintenance intervals and procedures being performed as prescribed by the manufacturer.

Standby Power (ESP) – ISO 8528

Standby Power (ESP) is the maximum power available at a variable load, under the operating conditions provided, that a generator is able to provide in case of power failure or under test conditions, maintenance intervals and procedures being performed as prescribed by the manufacturer.

Endress Group Romania S.R.L.

Offices:

Bucharest: km 16 A1 – Ciorogarla, Sos. Bucuresti, Nr. 108

Production:

Germany, Grafenberg, Werner von Siemens Str. 3

Romania, Bocsa, Str. Medresului, Nr. 17, Caras-Severin County.

1. DIESEL ENGINE

| SPECIFICATII MOTOR | |
|---|-------------|
| Type | DEWERK |
| Model | DWR25 |
| No. of cylinders & arrangement | 4 – in line |
| Suction & cooling | Natural |
| Maximum standby power (kW) | 24.2 |
| Speed (rpm) | 1500 |
| Displacement (l) | 2.540 |
| Inner diameter & stroke (mm) | 90 x 100 |
| Compression factor | 18 : 1 |
| Regulator | Mechanical |
| Oil capacity (liters) | 8.5 |
| Coolant capacity (l) | 11 |
| Intake air flow (m ³ / min.) | 1.9 |
| Air cooling radiator (m ³ / min.) | 113 |
| Exhaust gas flow rate (m ³ / min.) | 5 |
| Start System (V.d.c.) | 12 |
| 100% load fuel consumption (l / h) | 5.5 |

2. ALTERNATOR

| ALTERNATOR SPECIFICATIONS | |
|---------------------------|--------------------|
| Model | AFA |
| Frequency (Hz) | 50 |
| Power (kVA) | 22.5 |
| Concept | Brushless, 4 poles |
| Cos phi | 0,8 |
| Phases | 3 |
| Voltage (V) | 400 / 230 |
| Current (A) | 32 |
| Izolation class | H |
| Excitation system | Electronic (AVR) |

3. CONTROL SYSTEM DSE 6020

Run the generators, and the operating parameters control, both in automatic and in manual mode. Equipped with LCD screen, which can be monitored by a PC..

1. Led display screen
2. Menu navigation buttons
3. Information button
4. Common alarm indicator
5. Status LEDs
6. Function selection buttons:
 - Manual
 - Automat
 - Start
 - Stop



□ Devices

Command and control panel mounted in a metal box with IP 54, mounted inside the generator, provided with a window for viewing from the outside, fitted with:

- DSE 6020 command module
- Static battery charger
- Emergency stop button & circuit control fuses

□ Parameters displayed:

Engine: engine speed; oil pressure; coolant temperature; running time; battery voltage; must perform engine maintenance;

Generator: voltage (L – L, L – N); current (L1 – L2 – L3); frequency; grounding current; kW; Pf; kVAr; kWh, kVAh, kVarh; phase sequence.

Main network: voltage (L – L, L – N); frequency.

□ Circuit protection

Warnings: charging failure; battery under voltage; stop failure; low fuel level indicator – optional; overload kW; negative phase sequence.

Pre-alarms: low oil pressure; engine high temperature; engine low temperature; under / over speed; generator under / over frequency; generator under / overvoltage; ECU warning.

Stops: startup failure; emergency stop; low oil pressure; engine high temperature; low coolant level; under / over speed; generator under / over frequency; generator under / overvoltage; oil pressure sensor open; phase reversal.

Electric shock: grounding; overload kW; generator over current; negative phase sequence.

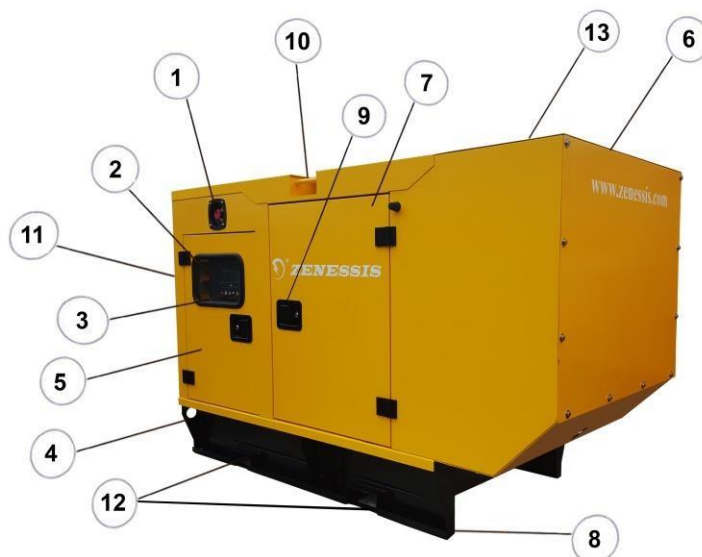
□ Standards: Electrical safety / EMC

BS EN 60950; BS EN 60950 – 6 – 2 EMC; BS EN 61000 – 6 – 4 EMC.

4. HOUSING

Made of powder-coated galvanized steel, soundproofed, waterproofed. It has modular design with interior access doors. The silencer is residential, mounted in the housing

1. Emergency stop button
2. Viewing window
3. Automation panel
4. Space cable access
5. Circuit breaker (CB)
6. Warm air intake grills
7. Acces doors.
8. Sled type chassis with lifting eyelets
9. Locks
10. Eyelets lifting crane
11. Air intake / exhaust grills
12. Space manipulation with forklift
13. Flue gas exhaust



5. STANDARD FEATURES

- ☐ Command & control panel with measurement & metal control devices, protection class IP54
- ☐ Static battery charger
- ☐ Dynamic battery charging alternator
- ☐ Controlled thermostat heater for coolant
- ☐ Oversized start battery
- ☐ Emergency stop button Buton oprire urgenta
- ☐ Chassis with fuel tank sized for 8hrs of autonomy
- ☐ Vibration dampers
- ☐ Fuel level measuring device
- ☐ Electrical lines protected with tubing & gland
- ☐ Residential silencer
- ☐ Protection for hot components

6. SIZE & WEIGHT

| Opened generator sizes & weight | |
|---|---------------------|
| Dimensions (length x width x height) (mm) | 1 500 x 900 x 1 060 |
| Dry weight (kg) | 665 |
| Fuel tank capacity (liters) | 95 |

| Closed generator sizes & weight | |
|---|---------------------|
| Dimensions (length x width x height) (mm) | 1 940 x 970 x 1 220 |
| Dry weight (kg) | 790 |
| Fuel tank capacity (liters) | 95 |

7. OPTIONAL FEATURES

- ☐ Electrical panel anti-condensation heating system
- ☐ Fuel / oil heating system
- ☐ Coolant heating circulation pump
- ☐ Oil drain pump
- ☐ Remote monitoring & control system
- ☐ AAR load transfer panel, 3/4 poles, electromechanical or motorized
- ☐ CB protection switch, 3/4 poles, electromechanical or motorized
- ◆ Bypass panel – ENDRESS patented invention– OSIM patent 0010/2012
- ☐ Remote radiator
- ☐ Air filters tropical use
- ☐ Trailer



ENDRESS PRODUCTS ARE IN A CONTINUOUS DEVELOPMENT AND IMPROVEMENT PROCESS. FOR THIS REASON, ENDRESS GROUP ROMANIA RESERVES THE RIGHT TO MODIFY THE INFORMATION FOUND IN THESE LEAFLETS WITHOUT PRIOR NOTIFICATION